

STAT

TO:

DATE: 31 January 1957

STAT

FROM:

**SUBJECT: Engineering Report, Configuration 73-C, Serial No. 1  
PTF 178**

**The configuration, loaded with a full 4000' load, was flown this date on a flight duration of 3 hours and 50 minutes.**

**Post-flight inspection indicated no malfunctions in the configuration. The windows were free of moisture and approximately 750 lbs. of nitrogen remained in the reserve tanks. The temperature on the rocking flat on land was 59° F. This test represented a full run of material and for the purposes of testing the overall operation and optical characteristics, it is considered 100% satisfactory.**

**Photo results indicated that a tilt is prevalent in the focal plane. The focus appeared to approach the platen in one corner of the format. A small amount of vignetting occurred at the top of the format, concluded to be caused by wire dressing to the data chamber.**

**The optical system will be auto collimated for focus and tilt will be removed prior to the next test flight.**

STAT

**HM/pe**

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TO: [REDACTED]

DATE: 29 January 1957

STAT

FROM: [REDACTED]

**SUBJECT: Engineering Report, Configuration 73-C, Serial No. 1  
PTF 177**

The Configuration 73-C, Serial No. 1, was installed in Article 367 which is now equipped with bag in which dry nitrogen will be maintained at a differential pressure of 1/4 lb.

The purposes of this test were identical to the previous flight, (1) to test overall operation under flight conditions, and (2) to test optical characteristics.

On post flight inspection, the windows were clear of moisture and oil, the nitrogen reserve indicated 750 lbs. remained from the 2-1/2 hour operation. No malfunctions occurred in the configuration, however, the pilot neglected to turn on the 400 cycle power on the aircraft. This denied power to the shutter motor so that no exposures were received. The film drive transported 1000 feet of film on both sides. All functions operated satisfactorily.

The power problem was called to the attention of the aircraft people and assurances were received to the effect that this switch would be placed on this check list.

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HM/pe